## **FGN.1F.305.XLC**





Image for illustrative purpose only

# **Summary**

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### See video assembly instructions

Number of contacts Low Voltage	5
Wire Size/AWG	24 - 20
Gender	Standard
Plug	Plug - Straight
Locking system	Push-pull
Jacket cable outside diameter [mm]	3.80 - 10.70 mm
Size	1F
Suggested matching part	EGN.1F.305.XLM PHN.1F.305.XLM
Series	F - Rugged Push-Pull

# **Technical details**

### **Electrical Configuration**

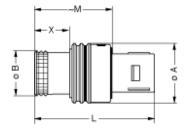
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Number of contacts Low Voltage	5	
Contact Termination Low voltage	Crimp	
R (max)	4.8 mOhm	
Insert configuration value	1F.305 - 5 Low Voltage	
Insulator	L: PEEK (UL 94 / V-0/1.5)	
Rated current	9 A	
Vtest (contact-contact)	1300 V (AC), 1840 V (DC)	
Vtest (contact-shell)	1550 V (AC), 2200 V (DC)	
Contact retention	30 N	
Max. Conductor	0.5 mm² (AWG 20)	
Min. Conductor	0.25 mm² (AWG 24)	
Bucket Dia.	1.1 mm (0.043in)	
Contact Dia.	0.9 mm (0.035in)	
Wire Size/AWG	24 - 20	
Gender	Standard	
Form & Material		
Shell style / Model id FG - Straight plug		
Plug	Straight	
Housing material	Aluminium (nickel plated [SAE AMS QQ N 290], anthracite color) shell and nut, other pieces bronze/brass	
Locking system	Push-pull	
Keying	3 keys (beta=165, gamma=30, plug: male contacts, receptacle: female contacts)	
Colour	Grey	
Weight	8.73 g	

#### **Environment**

Technical domain	Motorsport, Security and Defence		
Environmental sealing (IP rating)	IP67		
Endurance	1000 mating cycles		
Temperature range	-15°C / $\pm$ 200°C (max. temperature valid for short periods of use.)		
Climatical Category	15/200/21 (Aluminium shell)		
Humidity (max)	<=95% [at 60 deg C /140 F]		
Shock Resistance	100 g [ 6 ms]		
Vibration	15 g [10 Hz - 2000 Hz]		
Salt Spray Corrosion	max. 48 hr		
Cable fixation			
Cable termination protection	Heatshrink		
Fixation type	Heatshrink		
Jacket cable outside diameter [mm]	3.80 - 10.70 mm		

# **Drawings**







### **Dimensions**

	М	A	В	L	X
mm.	17.9	14	10.7	27.8	8
in.	0.7	0.55	0.42	1.09	0.31

# **Recommended By Lemo**

#### **Accessories**

Replacement contact	FGG.0B.560.ZZC
Compatible cap	BFG.1F.100.XAZ
Tools	
Positionner	DCE.91.090.BVC
Extraction tool	DCC.09.05B.LAG
Crimp tool	DPC.91.701.V

## **Cables**

Cable PartNumber	Material	Colour	Cable image
CMN.05.T20.057PGZE		grey	
CMN.05.T20.057PNZE			
CMN.05.T20.057QGZE	TPR (medical)	Grey	
CMN.05.T22.051QGZE	TPR (medical)	Grey	
150250	PVC	Grey	
250500	PVC	Grey	
50090	PVC	Black	
50140	PVC	Grey	